

Yongrong Yang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5076017/yongrong-yang-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

176
papers

2,173
citations

25
h-index

35
g-index

188
ext. papers

2,619
ext. citations

4.5
avg, IF

5.22
L-index

#	Paper	IF	Citations
176	The microstructure-tensile property relationship of polyethylene resin for biaxially stretched film. <i>Journal of Polymer Research</i> , 2022 , 29, 1	2.7	0
175	Kinetic Perspective on Methanol to Propylene Process via HZSM-5 Catalyst: Balancing between Reaction and Diffusion. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 2055-2067	3.9	0
174	Formation of liquid and solid bridges under the interactions between droplet-polyethylene particle pairs. <i>Chemical Engineering Science</i> , 2022 , 250, 117369	4.4	0
173	Globally optimal design of refinery hydrogen networks with pressure discretization. <i>Chemical Engineering Science</i> , 2022 , 247, 117021	4.4	2
172	Simultaneous design of heat integrated water allocation networks considering all possible splitters and mixers. <i>Energy</i> , 2022 , 238, 121916	7.9	2
171	Structural Design and Performance of a Jet-Impinging Type Microbubble Generator. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 4445-4459	3.9	0
170	Morphology evolution and mechanical property enhancement of linear low-density polyethylene by adding disentangled ultrahigh molecular weight polyethylene. <i>Polymers for Advanced Technologies</i> , 2022 , 33, 1047-1056	3.2	0
169	Effects of internal structures on mass transfer performance of jet bubbling reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022 , 175, 108936	3.7	0
168	Modeling and Control of COVID-19 Transmission from a Perspective of Polymerization Reaction Dynamics. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 17650-17662	3.9	1
167	Synthesis of Weakly Entangled Ultra-High-Molecular-Weight Polyethylene with a Fine Particle Size. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 3354-3362	3.9	3
166	The Intermittent Dormancy of Ethylene Polymerization with the Assistance of Nitrogen Microbubbles. <i>Macromolecules</i> , 2021 , 54, 9418-9426	5.5	3
165	Optimal Design of a Subambient Membrane Separation System with Work and Heat Integration for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 15194-15207	3.9	0
164	Revealing the Dynamic Behaviors of Tetrahydrofuran for Tailoring the Active Species of Ziegler-Natta Catalysts. <i>ACS Catalysis</i> , 2021 , 11, 4411-4421	13.1	5
163	Effect of the Scale-Up Process on the Reactor Performance within the Riser: Simulation Using Ozone Decomposition. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 11479-11489	3.9	1
162	Flow regimes in a gas-liquid-solid three-phase moving bed. <i>AIChE Journal</i> , 2021 , 67, e17374	3.6	0
161	Performance Evaluation and Scale-Up Behavior of an Engineered In-Line Mixer for 3D Printing. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 11568-11578	3.9	4
160	Evolution and fluidization behaviors of wet agglomerates based on formation-fragmentation competition mechanism. <i>Chemical Engineering Science</i> , 2021 , 247, 116933	4.4	0

159	Hydrodynamics and heat transfer in a fluidized bed with liquid spray: Particle color-change based measurement and modelling. <i>Chemical Engineering Science</i> , 2021 , 229, 116088	4.4	1
158	Machine learning assisted measurement of solid mass flow rate in horizontal pneumatic conveying by acoustic emission detection. <i>Chemical Engineering Science</i> , 2021 , 229, 116083	4.4	8
157	The chain microstructure and condensed structure of polyethylene resin used for Biaxially stretched film. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49652	2.9	3
156	Bubble breakup in a swirl-venturi microbubble generator. <i>Chemical Engineering Journal</i> , 2021 , 403, 126397	4.7	19
155	A volatile spray zone model and experimentation in a gas-solid fluidized bed with liquid injection. <i>Chemical Engineering Science</i> , 2021 , 231, 116306	4.4	3
154	The screened waveguide for intrusive acoustic emission detection and its application in circulating fluidized bed. <i>AIChE Journal</i> , 2021 , 67, e17118	3.6	1
153	Pore plugging effects on the performance of ZSM-5 catalyst in MTP reaction using a discrete model. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 32, 253-263	3.2	
152	Experimental measurement of bubble breakup in a jet bubbling reactor. <i>AIChE Journal</i> , 2021 , 67,	3.6	4
151	Efficient Strategy for the Synthesis of Work and Heat Exchange Networks. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 1756-1773	3.9	3
150	A 3D-printed continuous flow platform for the synthesis of methylaluminoxane. <i>Green Chemistry</i> , 2021 , 23, 4087-4094	10	3
149	Continuous synthesis of isobutylaluminoxanes in a compact and integrated approach. <i>Chemical Engineering Journal</i> , 2021 , 425, 131750	14.7	1
148	Dynamic characteristics of the volatile cloudy zone in a gas-solid fluidized bed with hydrocarbon liquid spray. <i>AIChE Journal</i> , 2021 , 67, aic17155	3.6	1
147	Enhancing Methane Conversion by Modification of Zn States in Co-Reaction of MTA. <i>Catalysts</i> , 2021 , 11, 1540	4	0
146	Simultaneous Optimization for Organic Rankine Cycle Design and Heat Integration. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 20455-20471	3.9	3
145	Efficient Synthesis of Low-Polydispersity UHMWPE by Elevating Active Sites on Anchored POSS Molecules. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 19964-19971	3.9	1
144	Leveraging 3D Printing for the Design of High-Performance Venturi Microbubble Generators. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8447-8455	3.9	9
143	Targeting and Design of Work and Heat Exchange Networks. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12471-12486	3.9	7
142	Measurement of solubility and diffusion coefficients of ethylene in solid and molten low-density polyethylene with different melt indices. <i>Polymer Engineering and Science</i> , 2020 , 60, 1998-2007	2.3	

141	Characterization of flow pattern of cohesive particles in gas-solid fluidized bed via axial distribution of particle motions. <i>International Journal of Multiphase Flow</i> , 2020 , 130, 103355	3.6	6
140	Investigation of pressure drop in a cocurrent downflow three-phase moving bed. <i>AIChE Journal</i> , 2020 , 66, e16227	3.6	3
139	Performance comparison of swirl-venturi bubble generator and conventional venturi bubble generator. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 154, 108022	3.7	10
138	Kinetic modeling with automatic reaction network generator, an application to naphtha steam cracking. <i>Energy</i> , 2020 , 207, 118204	7.9	5
137	Simultaneous Design of Hydrogen Allocation Networks and PSA Inside Refineries. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4712-4720	3.9	16
136	Electrostatic effects on hydrodynamics in the riser of the circulating fluidized bed for polypropylene. <i>AIChE Journal</i> , 2020 , 66, e16916	3.6	2
135	Simultaneous Optimization of a Heat Exchanger Network and Operating Conditions of Organic Rankine Cycle. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 11596-11609	3.9	11
134	Classification and identification of gas-liquid dispersion states in a jet bubbling reactor. <i>AIChE Journal</i> , 2020 , 66, e16778	3.6	8
133	On flow regime transition in trickle bed: Development of a novel deep-learning-assisted image analysis method. <i>AIChE Journal</i> , 2020 , 66, e16833	3.6	7
132	Characterization of Fluidization Regimes and Their Transition in Gas-Solid Fluidization by Hilbert-Bluang Transform. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 883-896	3.9	5
131	Experimental characterization of liquid film behavior during droplets-polyethylene particle collision. <i>AIChE Journal</i> , 2020 , 66, e16909	3.6	4
130	Selective distribution and contribution of nickel based pre-catalyst in the multisite catalyst for the synthesis of desirable bimodal polyethylene. <i>European Polymer Journal</i> , 2020 , 135, 109878	5.2	4
129	Evolution and Interaction Characteristics of Liquid Flow and Bubbles in a Jet Bubbling Column. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 21217-21230	3.9	1
128	Experimental and Modeling Investigation of Liquid-Induced Agglomeration in a Gas-Solid Fluidized Bed with Liquid Spray. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 11810-11822	3.9	8
127	Investigation of particle flow behaviors in a simplified downcomer of multistage fluidized bed. <i>Powder Technology</i> , 2020 , 375, 292-301	5.2	
126	Dispersion Trajectory and Dynamics of Particles Injected from the Sidewall in the Gas-Solid Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 18705-18716	3.9	
125	Important mesoscale phenomena in gas phase fluidized bed ethylene polymerization. <i>Particuology</i> , 2020 , 48, 116-143	2.8	6
124	Experimental study of bubble dynamics and flow transition recognition in a fluidized bed with wet particles. <i>Chemical Engineering Science</i> , 2020 , 211, 115257	4.4	8

123	Experimental study of the effect of inclination angle on the minimum conveying velocity and the underlying mechanisms. <i>AIChE Journal</i> , 2020 , 66, e16830	3.6	5
122	Enhancing low-temperature methane conversion on Zn/ZSM-5 in the presence of methanol by regulating the methanol-to-aromatics reaction pathway. <i>Catalysis Science and Technology</i> , 2020 , 10, 6161-6172	5.5	5
121	Bubble Size Distribution and Rise Velocity in a Jet Bubbling Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19271-19279	3.9	10
120	Entanglement Formation Mechanism in the POSS Modified Heterogeneous Ziegler-Natta Catalysts. <i>Macromolecules</i> , 2019 , 52, 7593-7602	5.5	18
119	Flow regime identification in horizontal pneumatic conveying by nonintrusive acoustic emission detection. <i>AIChE Journal</i> , 2019 , 65, e16552	3.6	9
118	Assessment of the TFM in predicting the onset of turbulent fluidization. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 979-992	3.2	5
117	A novel two-step method to design inter-plant hydrogen network. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 5686-5695	6.7	25
116	Stable operating range and solids residence time of fine fluorite particles in the two-stage fluidized bed. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 142, 107558	3.7	2
115	Electrostatic Distribution in the Riser of the Multizone Circulating Fluidized Bed for Polypropylene. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 12301-12311	3.9	3
114	Simulation-Based Multiobjective Optimization of the Product Separation Process within an MTP Plant. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 12166-12178	3.9	3
113	Thermal-Stability Analysis of Ethylene-Polymerization Fluidized-Bed Reactors under Condensed-Mode Operation through a TPM-BBM Integrated Model. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 9486-9499	3.9	5
112	Balancing between risk and profit in refinery hydrogen networks: A Worst-Case Conditional Value-at-Risk approach. <i>Chemical Engineering Research and Design</i> , 2019 , 146, 201-210	5.5	17
111	Transshipment type heat exchanger network model for intra- and inter-plant heat integration using process streams. <i>Energy</i> , 2019 , 178, 853-866	7.9	18
110	Novel NiPt alloy nanoparticle decorated 2D layered g-C ₃ N ₄ nanosheets: a highly efficient catalyst for hydrogen generation from hydrous hydrazine. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8798-8804	13	42
109	Indirect Heat Integration across Plants: Novel Representation of Intermediate Fluid Circles. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 7233-7246	3.9	3
108	Characterization of the bubble swarm trajectory in a jet bubbling reactor. <i>AIChE Journal</i> , 2019 , 65, e16565	5.6	17
107	Effects of aluminoxane cocatalysts on bis(imino)pyridine iron-catalyzed ethylene oligomerization. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 903-910	2.3	2
106	Systematic Design and Optimization of a Membrane-Cryogenic Hybrid System for CO ₂ Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17186-17197	8.3	9

105	Molecular Reconstruction of Naphtha via Limited Bulk Properties: Methods and Comparisons. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 18742-18755	3.9	4
104	Ce/MgAl mixed oxides derived from hydrotalcite LDH precursors as highly efficient catalysts for ketonization of carboxylic acid. <i>Catalysis Science and Technology</i> , 2019 , 9, 6335-6344	5.5	11
103	Molecular reconstruction: Recent progress toward composition modeling of petroleum fractions. <i>Chemical Engineering Journal</i> , 2019 , 357, 761-775	14.7	30
102	Effects of Methylaluminoxane Modifications on Tuning the Bis(Imino)Pyridyl Iron-Catalyzed Oligomerization of Ethylene. <i>Polymer Engineering and Science</i> , 2019 , 59, 1010-1016	2.3	1
101	Modelling and simulation of two-bed PSA process for separating H ₂ from methane steam reforming. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 1870-1878	3.2	29
100	Methanol to Propylene over Foam SiC-Supported ZSM-5 Catalyst: Performance of Multiple Reaction/Regeneration Cycles. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 27-33	3.9	13
99	MILP Model for the Nonlinear Problem of Optimal Purifier Placement. <i>Process Integration and Optimization for Sustainability</i> , 2018 , 2, 85-94	2	2
98	Facile high-temperature synthesis of weakly entangled polyethylene using a highly activated Ziegler-Natta catalyst. <i>Journal of Catalysis</i> , 2018 , 360, 145-151	7.3	30
97	Stability Analysis of Ethylene Polymerization in a Liquid-Containing Gas/Solid Fluidized Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5616-5629	3.9	9
96	Dynamic and Steady-State Characterization of the Liquid Spray Zone in an Externally Heated Gas/Solid Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 2988-3001	3.9	11
95	Tuning Bis(imino)pyridyl Iron-Catalyzed Ethylene Oligomerization by Modification of MAO with p-BrPhOH. <i>Macromolecular Reaction Engineering</i> , 2018 , 12, 1700061	1.5	5
94	Optimal design of hybrid cryogenic flash and membrane system. <i>Chemical Engineering Science</i> , 2018 , 179, 13-31	4.4	7
93	Energy and Water Management for Industrial Large-Scale Water Networks: A Systematic Simultaneous Optimization Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2269-2282	8.3	28
92	Heat Transfer Blocks Diagram: A Novel Tool for Targeting and Design of Heat Exchanger Networks Inside Heat Integrated Water Allocation Networks. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2704-2715	8.3	20
91	Solvents Molecular Mobility in Coked Catalyst ZSM-5 Studied by NMR Relaxation and Pulsed Field Gradient Techniques. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6647-6653	3.9	4
90	Experimental investigation on mechanisms of fine particles generation for the Borealis Borstar multistage olefin polymerization process. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46589	2.9	4
89	Investigating Agglomeration Behaviors in High Temperature Gas/Solid Fluidized Beds with Liquid Injection. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5482-5494	3.9	15
88	Fluidization of Cohesive Fluorite Particles at Ambient/High Temperatures and Enhancement Methods. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4697-4709	3.9	2

87	Effects of DC electric fields on meso-scale structures in electrostatic gas-solid fluidized beds. <i>Chemical Engineering Journal</i> , 2018 , 332, 293-302	14.7	11
86	Hydrodynamics in a jet bubbling reactor: Experimental research and mathematical modeling. <i>AIChE Journal</i> , 2018 , 64, 1814-1827	3.6	11
85	Enhanced Reaction Performances for Light Olefin Production from Butene through Cofeeding Reaction with Methanol. <i>Energy & Fuels</i> , 2018 , 32, 787-795	4.1	1
84	Critical comparison of electrostatic effects on hydrodynamics and heat transfer in a bubbling fluidized bed with a central jet. <i>Chemical Engineering Science</i> , 2018 , 191, 156-168	4.4	3
83	New Insights into TH/HE Diagrams for Synthesis of Heat Exchanger Networks inside Heat Integrated Water Allocation Networks. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9323-9328	3.9	6
82	CFD-DEM investigation of particle elutriation with electrostatic effects in gas-solid fluidized beds. <i>Powder Technology</i> , 2017 , 308, 422-433	5.2	40
81	Modeling Agglomeration Behavior in High Temperature Gas-Solid Fluidized Beds via Monte Carlo Method. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1112-1121	3.9	3
80	Optimal process design for recovering effluent gas at subambient temperature. <i>Journal of Cleaner Production</i> , 2017 , 144, 130-141	10.3	9
79	Effect of metal on the methanol to aromatics conversion over modified ZSM-5 in the presence of carbon dioxide. <i>RSC Advances</i> , 2017 , 7, 10729-10736	3.7	24
78	Simultaneous measurement of electrostatic charge and its effect on particle motions by electrostatic sensors array in gas-solid fluidized beds. <i>Powder Technology</i> , 2017 , 312, 29-37	5.2	6
77	Targeting of heat integrated water allocation networks by one-step MILP formulation. <i>Applied Energy</i> , 2017 , 197, 254-269	10.7	23
76	Promotional effect of Ti doping on the ketonization of acetic acid over a CeO ₂ catalyst. <i>RSC Advances</i> , 2017 , 7, 22017-22026	3.7	19
75	Kinetic and regenerator modeling of the coke combustion in the moving bed MTP process. <i>Chemical Engineering Research and Design</i> , 2017 , 122, 52-62	5.5	9
74	Automatic Design of Multi-Impurity Refinery Hydrogen Networks Using Mixing Potential Concept. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 6703-6710	3.9	15
73	Online measurement of particle charge density in a gas-solid bubbling fluidized bed through electrostatic and pressure sensing. <i>Powder Technology</i> , 2017 , 317, 471-480	5.2	5
72	New transshipment type MINLP model for heat exchanger network synthesis. <i>Chemical Engineering Science</i> , 2017 , 173, 537-559	4.4	16
71	Solubility measurement of hydrogen, ethylene, and 1-hexene in polyethylene films through an intelligent gravimetric analyzer. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	6
70	Effects of agglomerates on electrostatic behaviors in gas-solid fluidized beds. <i>Powder Technology</i> , 2016 , 287, 139-151	5.2	12

69	Novel graphical tool for the design of the heat integrated water allocation networks. <i>AICHE Journal</i> , 2016 , 62, 670-686	3.6	18
68	Numerical Study of the Scaling Rules for Riser with Consideration of Cluster Effect. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 9533-9543	3.9	1
67	Multi-scale analysis of acoustic emission signals in dense-phase pneumatic conveying of pulverized coal at high pressure. <i>AICHE Journal</i> , 2016 , 62, 2635-2648	3.6	16
66	Measurement of Flow Characteristics in a Bubbling Fluidized Bed Using Electrostatic Sensor Arrays. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016 , 65, 703-712	5.2	20
65	Simultaneous optimization of heat-integrated water allocation networks. <i>Applied Energy</i> , 2016 , 169, 395-407	10.7	18
64	The influence of purifier models on hydrogen network optimization: Insights from a case study. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 5243-5249	6.7	17
63	Improvement of performance of a Au/Cu/AC catalyst using thiol for acetylene hydrochlorination reaction. <i>RSC Advances</i> , 2016 , 6, 3806-3814	3.7	11
62	Realization and control of multiple temperature zones in liquid-containing gas-solid fluidized bed reactor. <i>AICHE Journal</i> , 2016 , 62, 1454-1466	3.6	27
61	Strategy of effluent recovery technology selection in polyolefin plants. <i>Chemical Engineering Research and Design</i> , 2016 , 103, 405-412	5.5	4
60	Two-Fluid Model Simulations of the National Energy Technology Laboratory Bubbling Fluidized Bed Challenge Problem. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 5063-5077	3.9	17
59	Experimental investigation of electrostatic effect on bubble behaviors in gas-solid fluidized bed. <i>AICHE Journal</i> , 2015 , 61, 1160-1171	3.6	31
58	Efficient Au/C catalyst synthesized by a new method for acetylene hydrochlorination. <i>RSC Advances</i> , 2015 , 5, 46366-46371	3.7	15
57	Simultaneous Optimization of Heat-Integrated Water Allocation Networks Using the Mathematical Model with Equilibrium Constraints Strategy. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 3355-3366	3.9	25
56	Exploring the effects of phenolic compounds on bis(imino)pyridine iron-catalyzed ethylene oligomerization. <i>RSC Advances</i> , 2015 , 5, 95981-95993	3.7	7
55	Experimental Investigation of Particle Size Effect on Agglomeration Behaviors in Gas-Solid Fluidized Beds. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12177-12186	3.9	14
54	Energy configuration and operation optimization of refinery fuel gas networks. <i>Applied Energy</i> , 2015 , 139, 365-375	10.7	10
53	A thermodynamic irreversibility based design method for multi-contaminant hydrogen networks. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 435-443	6.7	19
52	Experimental investigation of electrostatic effect on particle motions in gas-solid fluidized beds. <i>AICHE Journal</i> , 2015 , 61, 3628-3638	3.6	24

51	Particle Motion in Two- and Three-Phase Fluidized-Bed Reactors Determined by Pulsed Field Gradient Nuclear Magnetic Resonance. <i>Chemical Engineering and Technology</i> , 2015 , 38, 1269-1276	2	10
50	Investigation of the extraction process in gel-spinning technology for ultrahigh-molecular-weight polyethylene fibers by low-field nuclear magnetic resonance. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	1
49	Methanol to Propylene Process in a Moving Bed Reactor with Byproducts Recycling: Kinetic Study and Reactor Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 4623-4632	3.9	34
48	Robust optimization of hydrogen network. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 1210-1218	6.7	42
47	Bimodal/Broad Polyethylene Prepared in a Disentangled State. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1088-1096	3.9	22
46	Catalytic performance of AuIII supported on SiO ₂ modified activated carbon. <i>RSC Advances</i> , 2014 , 4, 36316-36324	3.6	24
45	Acoustic Analysis of Particle-Wall Interaction and Detection of Particle Mass Flow Rate in Vertical Pneumatic Conveying. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 9938-9948	3.9	28
44	Solvent diffusion in silica/poly[styrene-co-(acrylic acid)] core-shell microspheres by pulsed field gradient NMR techniques. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	5
43	Siloxane-mediated ethylene oligomerization with iron-based catalysts: Retarding the polymer formation. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 2748-2759	2.5	8
42	Experimental Investigation of Electrostatic Reduction in a Gas-Solid Fluidized Bed by an in Situ Corona Charge Eliminator. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 14217-14224	3.9	14
41	Computational Fluid Dynamics Simulations and Experimental Validation of Macromixing and Flow Characteristics in Low-Density Polyethylene Autoclave Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 14865-14875	3.9	6
40	Mixing potential: A new concept for optimal design of hydrogen and water networks with higher disturbance resistance. <i>AIChE Journal</i> , 2014 , 60, 3762-3772	3.6	20
39	Computational fluid dynamics simulations of interphase heat transfer in a bubbling fluidized bed. <i>Korean Journal of Chemical Engineering</i> , 2014 , 31, 1148-1161	2.8	6
38	MPEC strategies for efficient and stable scheduling of hydrogen pipeline network operation. <i>Applied Energy</i> , 2014 , 119, 296-305	10.7	22
37	Characterization on hydrodynamic behavior in liquid-containing gas-solid fluidized bed reactor. <i>AIChE Journal</i> , 2013 , 59, 1056-1065	3.6	30
36	Diffusion measurements of isopentane, 1-hexene, cyclohexane in polyethylene particles by the intelligent gravimetric analyzer. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 1098-1104	2.9	7
35	Optimal design of sustainable hydrogen networks. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2937-2950	6.7	56
34	Effects of Interparticle Forces on Fluidization Characteristics in Liquid-Containing and High-Temperature Fluidized Beds. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16666-16674	3.9	23

33	Effect of hydrodynamic behavior on electrostatic potential distribution in gas-solid fluidized bed. <i>Powder Technology</i> , 2013 , 235, 9-17	5.2	22
32	Influence of nanofiller dimensionality on the crystallization behavior of HDPE/carbon nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 3609-3618	2.9	18
31	Pinch Sliding Approach for Targeting Hydrogen and Water Networks with Different Types of Purifier. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 8538-8549	3.9	36
30	Bi-objective optimization of a water network via benchmarking. <i>Journal of Cleaner Production</i> , 2013 , 39, 168-179	10.3	20
29	A heuristic approach to grade transition strategy of the HDPE slurry process in different operation modes. <i>Clean Technologies and Environmental Policy</i> , 2013 , 15, 833-849	4.3	0
28	Multilevel strategies for the retrofit of large-scale industrial water system: A brewery case study. <i>AIChE Journal</i> , 2012 , 58, 884-898	3.6	9
27	Sustainability performance evaluation in industry by composite sustainability index. <i>Clean Technologies and Environmental Policy</i> , 2012 , 14, 789-803	4.3	105
26	CFD investigation of particle fluctuation characteristics of bidisperse mixture in a gas-solid fluidized bed. <i>Chemical Engineering Science</i> , 2012 , 82, 285-298	4.4	13
25	Hydrogen sulfide removal process embedded optimization of hydrogen network. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18163-18174	6.7	52
24	TiCl ₄ immobilized on a composite support SiO ₂ /MgCl ₂ [(1,4-butanediol)/poly(styrene-co-(acrylic acid))] for ethylene polymerization: The barrier effect of poly(styrene-co-(acrylic acid)). <i>Journal of Applied Polymer Science</i> , 2012 , 125, 1207-1218	2.9	4
23	Bi-objective MINLP optimization of an industrial water network via benchmarking. <i>Computer Aided Chemical Engineering</i> , 2012 , 475-479	0.6	3
22	Simultaneous optimization of hydrogen network with desulfurization processes embedded. <i>Computer Aided Chemical Engineering</i> , 2012 , 31, 215-219	0.6	3
21	Systematic Optimization of Heat-Integrated Water Allocation Networks. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 6713-6727	3.9	47
20	CFD simulation and experiments of dynamic parameters in gas-solid fluidized bed. <i>Chemical Engineering Science</i> , 2011 , 66, 4972-4982	4.4	27
19	Effects of thermo-oxidative aging on chain mobility, phase composition, and mechanical behavior of high-density polyethylene. <i>Polymer Engineering and Science</i> , 2011 , 51, 2171-2177	2.3	26
18	Organic/inorganic support for immobilizing (n-BuCp) ₂ ZrCl ₂ /TiCl ₃ hybrid catalyst for use in the preparation of polymer blends. <i>Polymer International</i> , 2011 , 60, 676-684	3.3	9
17	Hybrid titanium catalyst supported on core-shell silica/poly(styrene-co-acrylic acid) carrier. <i>Journal of Applied Polymer Science</i> , 2010 , 118, n/a-n/a	2.9	2
16	Integrating purifiers in refinery hydrogen networks: a retrofit case study. <i>Journal of Cleaner Production</i> , 2010 , 18, 233-241	10.3	102

15	An NMR investigation on the phase structure and molecular mobility of the novel exfoliated polyethylene/palygorskite nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 1363-1371	2.6	8
14	Ethylene polymerization with hybrid nickel diimine/Cp2TiCl2 catalyst: a new method to prepare blends of linear and branched polyethylene. <i>Polymer International</i> , 2010 , 59, 617-623	3.3	9
13	Agglomeration detection based on attractor comparison in horizontal stirred bed reactors by acoustic emission sensors. <i>AIChE Journal</i> , 2009 , 55, 3099-3108	3.6	11
12	Fe(acac) _n and Co(acac) _n bearing different bis(imino)pyridine ligands for ethylene polymerization and oligomerization. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 2378-2391	2.9	14
11	Electrostatic potentials in gas-solid fluidized beds influenced by the injection of charge inducing agents. <i>Journal of Electrostatics</i> , 2009 , 67, 815-826	1.7	18
10	A STUDY OF ULTRASONIC RADIATION DISSIPATION IN POWDER PROCESSING SYSTEM. <i>Chemical Engineering Communications</i> , 2009 , 197, 239-249	2.2	3
9	Characterization of Particle Fluidization Pattern in a Gas Solid Fluidized Bed Based on Acoustic Emission (AE) Measurement. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 8508-8514	3.9	32
8	Design Energy Efficient Water Utilization Systems Allowing Operation Split . <i>Chinese Journal of Chemical Engineering</i> , 2008 , 16, 16-20	3.2	23
7	Modeling solubility of gases in semicrystalline polyethylene. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 1737-1744	2.9	30
6	Modeling the solubility of ternary mixtures of ethylene, iso-pentane, n-hexane in semicrystalline polyethylene. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 3654-3662	2.9	25
5	Measurement of the fluidized velocity in gas-solid fluidized beds based on AE signal analysis by wavelet packet transform. <i>Science in China Series B: Chemistry</i> , 2007 , 50, 284-289		4
4	Solubility of titanocene dichloride in supercritical propane. <i>Fluid Phase Equilibria</i> , 2004 , 220, 147-147	2.5	
3	Adsorption Equilibria of Hexane and Isopentane on Polyethylene at Different Temperatures, Pressures, and Particle Sizes. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 1222-1224	2.8	3
2	Acidity Modification of ZSM-5 for Methane Conversion in Co-feeding Method with MTA Reaction. <i>Chemical Research in Chinese Universities</i> , 1	2.2	2
1	Effects of Counter Anion Type on Melt Rheological Properties of Hyperbranched Polyethylene Ionomers Containing Covalently Bound Quaternary Ammonium Cations. <i>Macromolecular Reaction Engineering</i> , 2200021	1.5	